UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

SEP 3 0 2013

REPLY TO THE ATTENTION OF:

WC-15J

CERTIFIED MAIL 7009 1680 0000 7678 5952
RETURN RECEIPT REQUESTED

Ex. 6 (Personal Privacy)
d/b/a Cedar Red Dairy
Ex. 6 (Personal Privacy)
Ex. 6 (Personal Privacy)

Subject: Ex. 6 (Personal Privacy) d/b/a Cedar Red Dairy
Administrative Consent Order
Pursuant to 33 U.S.C. §§ 1318(a) and 1319(a)
Docket No. V-W-12-AO-20

Dear Ex. 6 (Personal Privacy):

Enclosed is the Administrative Consent Order (Agreement) that was agreed to on and signed by you on September 25, 2013. Please be advised that neither the issuance of this Agreement by EPA nor compliance with its terms affects Cedar Red Dairy's obligation to comply with the Clean Water Act (CWA) or any other laws or regulations, nor does it preclude further enforcement action pursuant to 33 U.S.C. § 1319(a) for the violations cited herein or any other violations committed by Cedar Red Dairy. Failure to comply with the Agreement may subject you to further enforcement action pursuant to Section 309 of the CWA, 33 U.S.C. § 1319(a).

If you have any questions concerning this matter, please contact Cheryl Burdett of my staff at (312) 886-1463.

Sincerely,

Tinka G. Hyde
Director, Water Division

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5

IN THE MATTER OF:	)	**DOCKET NO: V-W-13-AO-20**
Ex. 6 (Personal Privacy)	)	
d/b/a Cedar Red Dairy	)	**Proceeding Under Sections 308 and 309(a) of the Clean Water Act, 33 U.S.C. §§ 1318 and 1319(a)**
Ex. 6 (Personal Privacy)	)	
Respondent	)	

ADMINISTRATIVE CONSENT ORDER

1. The U.S. Environmental Protection Agency (EPA) and Ex. 6 (Personal Privacy) (Respondent), doing business as Cedar Red Dairy, enter voluntarily into this Administrative Consent Order (Order). EPA issues this Order to the Respondent under the authority of Sections 308 and 309(a) of the Clean Water Act (CWA or the Act), 33 U.S.C. §§ 1318 and 1319(a). The Administrator of EPA has delegated the authority to issue such orders to the Regional Administrator of EPA Region 5, who has redelegated this authority to the Director of the Water Division, EPA, Region 5.

STATUTORY BACKGROUND

2. Section 301(a) of the CWA, 33 U.S.C. § 1311(a), prohibits the discharge of pollutants to the waters of the United States except in compliance with, *inter alia*, a National Pollutant Discharge Elimination System (NPDES) permit issued pursuant to Section 402 of the CWA, 33 U.S.C. § 1342.

3. Pursuant to the CWA and EPA regulations, the owner or operator of a concentrated animal feeding operation (CAFO) which discharges any manure, litter or process wastewater must seek coverage under an NPDES permit. 33 U.S.C. § 1342; 40 C.F.R. § 122.23(a) and (d). Pursuant to 33 U.S.C. § 1318, EPA may require the owner or operator of any point source to establish and maintain records; make reports; install, use or maintain monitoring equipment or methods; sample effluents; and provide other information as may be reasonably required.

4. EPA has approved the State of Wisconsin to issue NPDES permits under Section 402(b) of the CWA, 33 U.S.C § 1342(b). The Wisconsin Department of Natural Resources (WDNR) is the NPDES permitting authority for the State of Wisconsin. WDNR refers to the NPDES permits that it issues as "WPDES permits." EPA retains the authority to enforce the CWA in Wisconsin.

DEFINITIONS

5. All terms used but not defined in this Order shall have the meanings provided to them in the CWA and EPA regulations promulgated under the CWA.

6. "Animal feeding operation" or "AFO" means, among other things, a lot or facility where animals (other than aquatic animals) have been, are, or will be stabled or confined and fed or maintained for a total of 45 days or more in any 12 month period and crops, vegetation, forage growth, or post harvest residues are not sustained in the normal growing season over any portion of the lot or facility. 40 C.F.R. § 122.23(b)(1).

7. "Concentrated animal feeding operation" or "CAFO" means, among other things an AFO that is defined as a Large CAFO or as a Medium CAFO under federal regulations. Two or more AFOs under common ownership are considered to be a single AFO for the purposes of determining the number of animals at an operation, if they adjoin each other or if they use a common area or system for the disposal of wastes. 40 C.F.R. § 122.23(b)(2).

8. "Day" means a calendar day unless otherwise specified. In computing any period of time under this Order, where the last day would fall on a Saturday, Sunday, or Federal holiday, the period shall run until the close of business of the next working day.

9. "Discharge" or "discharge of a pollutant" means, among other things, any addition of any pollutant to navigable waters from any point source. Sections 502(12), (16) of the CWA, 33 U.S.C. §§ 1362(12), 1362(16); 40 C.F.R. § 122.2.

10. "Facility or activity" means any NPDES "point source" or any other facility or activity (including land or appurtenances thereto) that is subject to regulation under the NPDES program. 40 C.F.R. § 122.2.

11. "Manure" means manure, bedding, compost, and raw materials or other materials commingled with manure or set aside for disposal. 40 C.F.R. § 122.23(b)(5).

12. "Medium CAFO" means, among other things, an AFO that stables or confines 200 to 699 mature dairy cows, whether milked or dry, and meets either one of the following conditions: (A) pollutants are discharged into waters of the United States through a man-made ditch, flushing system, or other similar man-made device; or (B) pollutants are discharged directly into waters of the United States which originate outside of and pass over, across, or through the facility or otherwise come into direct contact with the animals confined in the operation. 40 C.F.R. § 122.23(b)(6).

13. "Navigable waters" means the waters of the United States. Section 502(7) of the CWA, 33 U.S.C. § 1362(7).

14. "Nutrient Management Plan" means the plan described in and required by Section VI.B of this Order.

15. "Parties" means EPA and Respondent.

16. "Person" means, among other things, an individual, association, partnership, or corporation. Section 502(5) of the CWA, 33 U.S.C. § 1362(5); 40 C.F.R. § 122.2.

17. "Point source" means, among other things, "any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, . . . [or] concentrated animal feeding operation . . . from which pollutants are or may be discharged." Section 502(14) of the CWA, 33 U.S.C. § 1362(14); 40 C.F.R. § 122.2.

18. "Pollutant" means, among other things, solid waste, sewage, garbage, sewage sludge, chemical wastes, biological materials, wrecked or discarded equipment, rock, sand, cellar dirt, and agricultural waste discharged into water. Section 502(6) of the CWA, 33 U.S.C. § 1362(6); 40 C.F.R. § 122.2.

19. "Process wastewater" means water directly or indirectly used in the operation of the AFO for any or all of the following: spillage or overflow from animal or poultry watering systems; washing, cleaning, or flushing pens, barns, manure pits, or other AFO facilities; direct contact swimming, washing, or spray cooling of animals; or dust control. Process wastewater also includes any water which comes into contact with any raw materials, products, or byproducts including manure, litter, feed, milk, eggs, or bedding. 40 C.F.R. § 122.23(b)(7).

20. "Production area" means that part of an AFO that includes the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment areas. The animal confinement area includes but is not limited to open lots, housed lots, feedlots, confinement houses, stall barns, free stall barns, milkrooms, milking centers, cowyards, barnyards, medication pens, walkers, animal walkways, and stables. The manure storage area includes but is not limited to lagoons, runoff ponds, storage sheds, stockpiles, under house or pit storages, liquid impoundments, static piles, and composting piles. The raw materials storage area includes but is not limited to feed silos, silage bunkers, and bedding materials. The waste containment area includes but is not limited to settling basins, and areas within berms and diversions which separate uncontaminated storm water. Also included in the definition of production area is any egg washing or egg processing facility and any area used in the storage, handling, treatment, or disposal of mortalities. 40 C.F.R. § 122.23(b)(8).

21. "Site" means the facility or facilities owned or operated by Respondent at or around Ex. 6 (Personal Privacy) [redacted], which includes the production area.

22. "Waters of the United States" means, in accordance with 40 C.F.R. § 122.2, among other things:

    a. All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce;

b. all interstate waters, including interstate wetlands;

c. all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes or natural ponds, the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce, including any such waters:

i. which are or could be used by interstate or foreign travelers for recreational or other purposes;

ii. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or

iii. which are or could be used for industrial purposes by industries in interstate commerce;

d. all impoundments of waters otherwise defined as waters of the United States under this definition;

e. tributaries of waters identified in subparagraphs (a) through (d) of this definition; and

f. wetlands adjacent to the waters identified above.

23. "Work" means all activities Respondent is required to perform under this Order.

FINDINGS

24. Respondent is a person.

25. Respondent owns or operates a dairy cow facility at the Site.

26. The Site includes lots or facilities for which both of the following findings are true:

a. dairy cows have been, are, or will be stabled or confined and fed or maintained for a total of 45 days or more in any 12 month period; and

b. crops, vegetation, forage growth, or post harvest residues are not sustained in the normal growing season over any portion of that lot or facility.

27. The Site is an AFO.

28. The Site has stabled or confined 200 to 699 mature dairy cows, whether milked or dry, for a total of 45 days or more in any 12 month period.

29. The Site meets one or both of the following conditions:

a. pollutants are or have been discharged into waters of the United States through a man-made ditch, flushing system, or other similar man-made device, including but not limited to the culvert within a channel at the Site; or

b. pollutants are or have been discharged directly into waters of the United States which originate outside of and pass over, across, or through the facility or otherwise come into direct contact with the animals confined in the operation.

30. The Site is a Medium CAFO.

31. On October 25, 2012, EPA personnel conducted an inspection at the Site (the Inspection). A copy of EPA's inspection report (Inspection Report) is included as Attachment 1 to this Order.

32. During the Inspection, EPA personnel observed a large pile of used bedding and manure stacked on concrete between the freestall barn and the heifer barn. Process wastewater was running off from the pile of manure and used bedding, and was flowing to and through a feedlot identified by Respondent as the "open dry heifer feedlot". EPA personnel further observed a runoff pathway from the open dry heifer feedlot. The pathway traveled down a hillside to a channel. The channel extended southeastward for 0.1 miles, through a pasture and a grassed filter strip, to an unnamed tributary (UNT). A culvert was located within the channel, downstream from the open dry heifer feedlot. EPA personnel observed water flowing through the channel and culvert into the UNT, as well as water flowing through the UNT.

33. The UNT referenced in Paragraph 32 above is a perennial tributary that flows 2.2 miles to the perennial Neshota River. The Neshota River flows 8.8 miles to the perennial West Twin River, which flows 17.7 miles to Lake Michigan.

34. During the Inspection, EPA personnel further observed runoff from the silage bunkers that flowed into the land application field to the Northwest of the operation.

35. The flow of liquid through the channel and culvert referenced in Paragraph 32 above contained process wastewater, which contains pollutants.

36. Water samples taken by EPA personnel at the culvert and at the channel immediately prior to its confluence with the UNT indicated the presence of Fecal Coliform, Total Phosphorous, Ammonia as N, Total Suspended Solids, Total Dissolved Solids, Nitrate-Nitrite N, Total Kjeldahl Nitrogen, and Biochemical Oxygen Demand, which are pollutants.

37. The UNT, the Neshota River, the West Twin River, and Lake Michigan are hydrologically connected surface waters.

38. The waterways in Paragraph 33 above are waters of the United States.

39. The Site is a point source.

40. The channel and the culvert referenced in Paragraph 32 are point sources.

41. On the date of EPA's inspection, pollutants from the Site were being discharged through point sources.

42. As a consequence of the flows described in Paragraph 32, Respondent added pollutants to waters of the United States.

43. The addition of pollutants to waters of the United States as described in Paragraphs 32 and 33 is a discharge of pollutants.

44. As of October 25, 2012, Respondent did not have an NPDES permit for the discharge of pollutants from the Site.

45. As a CAFO which discharges, the Site is subject to the NPDES permitting requirements of Section 402 of the CWA, 33 U.S.C. § 1342, and 40 C.F.R. Part 122.

46. By discharging pollutants from the Site without an NPDES permit, Respondent violated Section 301(a) of the CWA, 33 U.S.C. § 1311(a).

47. On the date of the Inspection, the Site had approximately 300 dairy cows. As of May 3, 2013, the Site has been de-populated of dairy cows but may be re-populated within twelve months of such date.

COMPLIANCE REQUIREMENTS

48. Upon the effective date of this Order, the Respondent shall cease all unpermitted discharges from the Site.

49. At least 10 days prior to any re-population of the Site with dairy cows, Respondent shall install, operate and maintain Interim Measures until Respondent has completed the necessary Permanent Measures to prevent discharges from Cedar Red Dairy. These Interim Measures shall provide for the prevention of all discharges of manure and process wastewater, including but not limited to manure and process wastewater from the following areas or sources:

    a. Silage bunkers,

    b. Stacked manure between buildings, and

    c. Runoff from open feedlots.

50. Within 15 days of installation of each Interim Measure, Respondent shall provide EPA with photos of the Interim Measures and a written description of the Interim Measures.

51. Within 45 days of the effective date of this Order, Respondent shall submit to EPA for approval a written schedule and plan for Permanent Measures to address runoff from the silage bunkers, the stacked manure, the dry heifer feedlot, and any other areas within the Site.

52. The Permanent Measures shall be designed, operated, and maintained such that a discharge from the Production Area will not occur unless the storm event is greater than the 25 year/24 hour storm. The Permanent Measures must be in compliance with all applicable federal, state, and local laws, rules, and regulations.

53. Upon EPA's written approval of the schedule and plan, Respondent shall implement the Permanent Measures accordingly.

54. Respondent shall implement and comply with all requirements of its approved Nutrient Management Plan.

Record Retention and Reporting

55. Upon the effective date of this Order, Respondent shall maintain at the Site a complete copy of the Nutrient Management Plan and copies of all records identified by the Nutrient Management Plan.

SUBMITTALS AND ACCESS TO INFORMATION

Submittals

56. Any documents or notifications required by this Order to be submitted to EPA shall be submitted by Respondent to the following address:

Water Enforcement Compliance Assurance Branch (WC-15J)
U.S. EPA Region 5
Attn: Cheryl Burdett
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

57. Any documents or notifications required by this Order to be submitted to WDNR shall be submitted by Respondent to the following address:

Wisconsin Department of Natural Resources
Agricultural Runoff Program
Attn: Thomas Bauman
P.O. Box 7921
101 South Webster Street
Madison, Wisconsin 53707

58. Any documents or notifications required by this Order to be submitted to WDNR shall be submitted by Respondent to the following address:

AG & Extension Service Center
Brown County Land and Water Conservation
Attention: Jon Bechle, Program Manager
1150 Bellevue Street
Green Bay, WI 54302

59. All submittals made pursuant to this Order shall be returned under an authorized signature containing the following certification:

> I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false statements and information, including the possibility of fines and imprisonment for knowing violations

60. If the signatory finds at any time after submittal of information that any portion of the submittal is false or incorrect, the signatory shall notify EPA immediately. Knowing submittal of false information to EPA in response to this Order may subject Respondent to criminal prosecution under Section 309 (c) of the CWA, 33 U.S.C. § 1319(c), and 18 U.S.C. §§ 1001 and 1341.

Confidentiality of Submissions

61. You may not withhold information because you claim it is confidential. However, pursuant to 40 C.F.R. Part 2, Subpart B, you may assert a claim of business confidentiality regarding any portion of the information submitted in response to this Order, as provided in 40 C.F.R. § 2.302(a)(2). The regulations provide that a person may assert a business confidentiality claim covering part or all of the information furnished to EPA when that person submits the information. The manner of asserting such claims is specified in 40 C.F.R. § 2.302(b). Effluent data (as defined in 40 C.F.R. § 2.302(a)(2) and information in NPDES permit applications is not entitled to confidential treatment. 40 C.F.R. § 122.7. No claim of confidentiality shall be made with respect to any data, including, but not limited to, all sampling, analytical, monitoring, hydro geologic, scientific, chemical, or engineering data, or any other documents or information evidencing conditions at or around the Site. Information subject to a business confidentiality claim is available to the public only to the extent, and by means of the procedures, set forth in 40 C.F.R. Part 2, Subpart B. See also Attachment B

62. If you do not assert a claim of business confidentiality when you submit the information, EPA may make the information available to the public without further notice.

63. EPA may use any information submitted in response to this Order in support of an administrative, civil or criminal action against Respondent.

CERTIFICATION OF COMPLETION AND TERMINATION

64. Within 30 days after Respondent concludes that it has complied with all requirements of this Order, Respondent shall submit to EPA a written certification of completion describing all actions taken to comply with all requirements of this Order.

65. After receipt and review of Respondent's certification of completion submitted pursuant to Paragraph 64, EPA shall notify Respondent whether all requirements of this Order have been satisfied.

66. This Order will terminate when Respondent receives notification of termination from EPA.

EFFECTIVE DATE

67. This Order is effective on the date of signature by the Director of the Water Division.

GENERAL PROVISIONS

68. EPA and Respondent recognize that this Order has been negotiated in good faith and that neither consenting to the terms of this Order, nor the actions undertaken by Respondent in accordance with this Order, constitutes an admission of liability.

69. Respondent agrees to the terms of this Order and further agrees that it will not contest the basis or validity of this Order.

70. Respondent waives any and all claims for relief and otherwise available rights or remedies to judicial or administrative review which the Respondent may have with respect to any issue of fact or law set forth in this Administrative Consent Order, including, but not limited to, any right of judicial review of this Section 309(a)(3) Administrative Consent Order under the Administrative Procedure Act, 5 U.S.C. §§ 701-708.

71. Respondent reserves the right to contest any future enforcement activity by EPA against Respondent, including but not limited to any future enforcement activity relating to any future discharge or to alleged noncompliance with this Order.

72. This Order is not a permit under the Act and does not waive or modify Respondent's responsibility to comply with all other applicable federal, state or local laws, regulations, ordinances, permits or licenses.

73. The terms of this Order are binding on Respondent, its assignees and successors. Any change in ownership or corporate status of Respondent including, but not limited to, any transfer of assets or real or personal property shall not alter Respondent's responsibilities under this Order. Respondent must give notice of this Order to any successors in interest prior to transferring ownership and must simultaneously verify to EPA, at the above address, that it has given the notice.

74. The signatories to this Order certify that they are authorized to execute and legally bind the parties they represent.

75. Respondent must ensure that its contractors, subcontractors, and representatives receive a copy of this Order and comply with this Order within 14 days after the Effective Date of this Order or after the date of such retention. Respondent will be responsible for any noncompliance with this Order.

76. EPA reserves all rights and remedies, legal and equitable, available to address any violation cited in this Order and any other violation of the Act, and to enforce this Order. Neither issuance of this Order by EPA nor compliance with its terms precludes further enforcement action pursuant to Section 309 of the Act, 33 U.S.C. § 1319, for the violations cited in this Order, for any other violations of the Act committed by Respondent, or to enforce this Order.

77. The Act includes provisions for administrative penalties, for civil injunctive relief and penalties, and for criminal sanctions for violations of the Act. Specifically, EPA may:

a. Assess civil administrative penalties under 33 U.S.C. § 1319(g) and 40 C.F.R. Part 19 of $16,000 per day for each violation that occurred after January 12, 2009, up to a total of $177,500;

b. Seek civil injunctive relief and penalties for violations of the Act under 33 U.S.C. § 1319(b) and 40 C.F.R. Part 19. EPA may seek civil judicial penalties of $37,500 per day for each violation that occurred after January 12, 2009; and

c. Seek criminal sanctions, including fines and imprisonment, for negligent or knowing violations of the Act under 33 U.S.C. § 1319(c).

78. The information required to be submitted pursuant to this Order is not subject to the approval requirements of the Paperwork Reduction Act of 1995, 44 U.S.C. § 3501 et seq. because it seeks collection of information by an agency from specific individuals or entities as part of an administrative action or investigation.

ADMINISTRATIVE CONSENT ORDER
In the Matter of: Ex. 6 (Personal Privacy) d/b/a Cedar Red Dairy
Docket No. V-W-13-AO-20

The undersigned representative of Respondent certifies that he/she is fully authorized to enter into the terms and conditions of this Order and to bind the party he/she represents to this document.

Agreed this 25 day of Sept, 2013.

For Respondent

By Ex. 6 (Personal Privacy)

Title Farmer

It is so ORDERED and Agreed this 30th day of September 2013

By: Tinka G. Hyde

Tinka G. Hyde
Director, Water Division
United States Environmental Protection Agency
Region 5

CWA COMPLIANCE EVALUATION INSPECTION REPORT
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION 5

Purpose:
Compliance Evaluation Sampling Inspection

Facility:
Cedar Red Dairy
Ex. 6 (Personal Privacy)

NPDES Permit Number:
None

Date of Inspection:
October 25, 2012

EPA Representatives:

Cheryl Burdett, Life Scientist	312-886-1463
Don Schwer, Environmental Engineer	312-353-8752

State Representatives:
None

Facility Representatives:
Ex. 6 (Personal Privacy)
Ex. 6 (Personal Privacy)
Ex. 6 (Personal Privacy)

Report Prepared by:
Cheryl Burdett, Life Scientist 312-886-1463
Burdett.cheryl@epa.gov

Report Date: July 2, 2013

Inspector Signature _____

BACKGROUND

The purpose of this report is to describe, evaluate and document Cedar Red Dairy compliance with the Clean Water Act (CWA) at its Denmark, Wisconsin facility on October 25, 2012.

Cedar Red Dairy is a medium dairy, which is located in the Manitowoc/ Sheboygan Watershed in Denmark, Wisconsin. Cedar Red Dairy milks approximately 300 dairy cows two times daily. They are considered a medium Concentrated Animal Feeding Operation (CAFO) based on the Federal Regulations that categorize a dairy operations on the number of mature dairy cows the facility maintains and a discharge through a man-made conveyance. [redacted] is the owner of Cedar Red Dairy; he currently does not have and has not applied for a National Pollutant Discharge Elimination System (NPDES) permit to discharge.

Cedar Red Dairy is located at the intersection of Larsenville and Kobes Road in Brown County. Flow from runoff of the production area is both to north and south. The flow to the south is 0.1 miles to an unnamed tributary, which flows 2.2 miles to the perennial Neshota River. The flow to the north is 0.1 miles to an intermittent unnamed tributary, which flows 2.0 miles to a perennial unnamed tributary. The unnamed tributary flows 0.8 miles to the perennial Neshota River. The Neshota River flows 8.8 miles to the perennial West Twin River, which flows 17.7 miles to Lake Michigan (TNW).

SITE INSPECTION

EPA personnel arrived at Cedar Red Dairy at 2:00 PM and presented credentials to Mr. [redacted] and complied with biosecurity measures. EPA explained the purpose of the visit was to inspect Animal Feeding Operations within Northeast Wisconsin to address any unpermitted discharges of nutrients into Green Bay and Lake Michigan. The weather was overcast and approximately 55 degrees Fahrenheit.

Record and Checklist:

EPA started the inspection by asking [redacted] questions from the Region 5, CAFO checklist. EPA asked [redacted], the owner, the name of his operation, which he said is Cedar Red Dairy and he confirmed that he is the owner and that it is not a Limited Liability Company or Corporation. [redacted] said that he has approximately 300 Dairy Cows in the freestall barns, 30 calves in the old barn, and 180 dry heifers in two dry heifer barns with an open feedlot. [redacted] explained that he keeps the Nutrient Management Plan with the Land and Conservation District COOP in Denmark, Wisconsin. [redacted] does not own any other operations. [redacted] has five family members who work at the facility and two other employees that are not family members.

[redacted] explained that the waste handling system consists of a two-stage solid settling basin with a concrete bottom and an earthen storage structure with a clay liner. The combined capacity of the two-stage solid settling basin and earthen structure is 1.5

million gallons. [redacted] explained that his manure storage structures were designed and constructed in 2002 approximately ten years prior by the Agricultural Service and Conservation Service (ASCS). Manure from the freestall barns and water from the drinking troughs, which is on a float system, is collected in a reception pit within the center of each freestall barn where it is pumped into the concrete storage pit. Also, in the old barn where the calves are kept is another reception pit, which also pumps into the concrete storage pit. The heifer barn gravity flows into the concrete storage pit. The concrete storage pit has a weir that allows the liquid from the concrete storage pit to flow into the earthen storage structure. The concrete feedlots are scraped and the manure is stored between the freestall barn and heifer barn, which is piled until it can be land applied. Silage is stored in bunkers and in silage bags. The freestall barns are manually scraped and the bedding for the cows is recycled paper.

[redacted] has a 7 acre pasture and he owns another 204 for land application. [redacted] said that he has a total of 350 acres for land application. [redacted] was asked if the storage structures had depth markers and [redacted] said "No." [redacted] stated that records of the storage structure levels are kept in the Nutrient Management Plan. [redacted] stated that the earthen storage structure was pumped last October and some of it was land applied and some of the manure was given away. When asked if there are visual inspections done for the water and milk lines the answer was the operation is walked daily, but no records are kept. Mortalities are logged in a notebook. Mortalities are taken by a Sandy Bay Mink Ranch.

Walk-Through:

After going through the checklist, EPA explained that the next step is to conduct a walk-through of the operation. Before the walk-through, EPA presented [redacted] the aerial photo of his operation, where he identified the buildings, number and animal types within each barn. EPA asked [redacted] how often water is in the unnamed tributary and Mr. Brunner responded by saying in the spring and fall. [redacted] accompanied EPA on the walk-through of the operation.

EPA started the walk-through on the north side of the production area at the silage bunker (IMGP 1040- IMGP 1041). EPA observed process wastewater from the silage bunker flowing to the west across the silage pad and then flowing northeast into agricultural field (IMGP 1042-IMGP 1043, and IMGP 1045). There is an unnamed tributary that is approximately 0.1 miles from the silage bunkers, but EPA personnel did not observe the process wastewater from the silage bunker discharging into the intermittent waterway at the time of the inspection.

EPA continued the walk-through along the access road on the east side of the production area. EPA observed on the southeast side of the production area the earthen storage structure (IMGP 1050). The earthen storage structure was constructed with steep embankments, which had woody plant growth (IMGP 1051and IMGP 1053); the storage structure had freeboard for the 25 year 24 hour storm plus additional storage. EPA walked back between the freestall barn and the dry heifer barn to observe the area where

Ex. 6 (Personal Privacy) had stated that he stored the used bedding and manure prior to land application, and to inspect the open dry heifer feedlot (IMGP 1057 – IMGP 1061). The area between the barns where the manure and used bedding was stored was sloped to drain storm water, which EPA observed coming into contact with the used bedding and manure. EPA followed the flow path of the process wastewater by entering the pasture and visually seeing the path through the open dry heifer feedlot and observing the channel on the south side. EPA continued to walk the channel to observe flow from the channel discharging into the unnamed tributary (IMGP 1062 – IMGP 1071). This channel through the pasture had a culvert to convey the stormwater and process wastewater (IMGP1073). The channel was supposed to flow to a grassed filter strip after the culvert to minimize channelization, but a channel through the grassed filter strip was created from the flow as it discharged into the unnamed tributary (IMGP 1074- IMGP 1083). EPA observed the discharge from the channel into the flowing unnamed tributary.

EPA informed Ex. 6 (Personal Privacy) that samples were needed. EPA explained that Ex. 6 (Personal Privacy) could split samples. Ex. 6 (Personal Privacy) accepted the offer to split samples. EPA explained that the samples would need to be properly preserved and that holding times would be required to be met and this would be his responsibility to meet the holding times and preserve samples on ice.

EPA collected sample S01- DS Culvert, downstream of the culvert in the waterway (IMGP 1078), EPA collected sample SO1 and split samples with Ex. 6 (Personal Privacy)

EPA collected sample S02 -Confluence, EPA sampled at the end of the waterway before it discharged into the unnamed tributary (IMGP 1083 and IMGP 1084). A split sample was collected at the same time for Ex. 6 (Personal Privacy) S03 was collected at the same location at S02.

S04 was blank sample that was prepared at EPA's vehicle.

Pictures were taken of the unnamed tributary at the time of the inspection to show flow upstream and downstream within the unnamed tributary east side of the production area at Cedar Red Dairy (IMGP 1086 – IMGP 1089).

After EPA collected samples, EPA preserved all the samples for Nutrients with Sulfuric Acid, including the samples provided to Ex. 6 (Personal Privacy) Ex. 6 (Personal Privacy) was informed that he would need to keep the samples on ice for the samples collected for Nutrients, General Chemistry, and Fecal Coliform. The samples collected for Fecal Coliform had to be at the lab within six hours of collection to meet the holding time. Samples for five day biological oxygen demand needed to be at a laboratory within 48 hours to meet the holding time. Nutrients needed to be kept on ice and because EPA had preserved the samples with sulfuric acid the samples did not have to be at the lab for 6 days to meet the holding times.

EPA explained areas of potential violations at the facility and provided [redacted] with some compliance information and Cheryl Burdett's e-mail and phone number.

Potential Violations:

Under Section 301(a) of the Clean Water Act, it is a violation to discharge pollutants to waters of the United States without a permit.

During the Inspection, EPA observed discharges in the following locations:

- Silage Bunker – No leachate collection system and discharged into land application field.
- Used bedding and manure stacked between the freestall barn and the heifer barn that flows through the open dry heifer feedlot into the waterway that discharged into the unnamed tributary.

EPA proceeded to PACE Analytical laboratory in Green Bay, WI to drop off the fecal Coliform samples. The samples for General Chemistry and Nutrients were shipped via UPS to CRL Laboratory in Chicago for analysis.

LIST OF ATTACHMENTS

A) Photo Log

B) Maps: ArcGis labeled photograph with barns, waterways, production area sections, sample locations, and discharge pathways and waterways to Traditional Navigable Water

C) Sample analyses from CRL Laboratory

SAMPLING RESULTS									
Sample ID	**Sample Description (all liquid samples)**	**Biochemical Oxygen Demand (mg/L)**	**Total Kjeldahl Nitrogen (mg/L)**	**Nitrate-Nitrite N (mg/L)**	**Total Dissolved Solids (mg/L)**	**Total Suspended Solids (mg/L)**	**Ammonia as N (mg/L)**	**Total Phosphorus (mg/L)**	**Fecal Coliform (CFU/100ml)**
S01	DS Culvert	7	5.46	7.00	592	80	2.40	0.63	41000
S02	Confluence	8	2.15	6.16	520	14	.34	0.30	900
S03	Confluence	3	1.82	6.06	530	9	.36	0.29	NA
S04	Cedar Red Farm	U	U	U	U	U	U	U	NA

U = Not Detected

The Fecal Coliform results were analyzed by Pace Analytical in Green Bay, Wisconsin

Ammonia Nitrogen, Total Phosphorus, Nitrate-Nitrite, Dissolved Solids (TDS), Total Suspended Solids (TSS), Total Kjeldahl Nitrogen (TKN), and Biochemical Oxygen Demand (BOD) were analyzed by the Region 5 Chicago Regional Laboratory.

ATTACHMENT A

CEDAR RED DAIRY
PHOTO LOG

CAFO COMPLIANCE SAMPLING INSPECTON
OCTOBER 25, 2012

Photo IMGP 1040: Silage Bunker
Location: North side of the production area, north of freestall barns. Process wastewater from the open silage bags flowing off pad to the west
Facing: East
Date/Time: 10/25/2012

Photo IMGP 1041: Silage Bunker runoff of process wastewater from open bags of silage
Location: North side of production area, north of freestall barns.
Facing: Northeast
Date/Time: 10/25/2012

Photo IMGP 1042: Silage Leachate from the silage bunker runs off into agricultural field
Location: West side of silage bunker
Facing: Northeast
Date/Time: 10/25/2012

Photo IMGP 1043: Path of process wastewater from the silage bunker into agricultural field
Location: North side of the silage bunker
Facing: Northeast
Date/Time: 10/25/2012

Photo IMGP 1044: Pile of tires
Location: West of Silage Bunker
Facing: South
Date/Time: 10/25/2012

Photo IMGP 1045: Northeast side of silage bunker in the agricultural field
Location: Northeast corner of the silage bunker
Facing: West
Date/Time: 10/25/2012

Photo IMGP 1046: West side of the production area
Location: West side of the production area
Facing: South
Date/Time: 10/25/2012

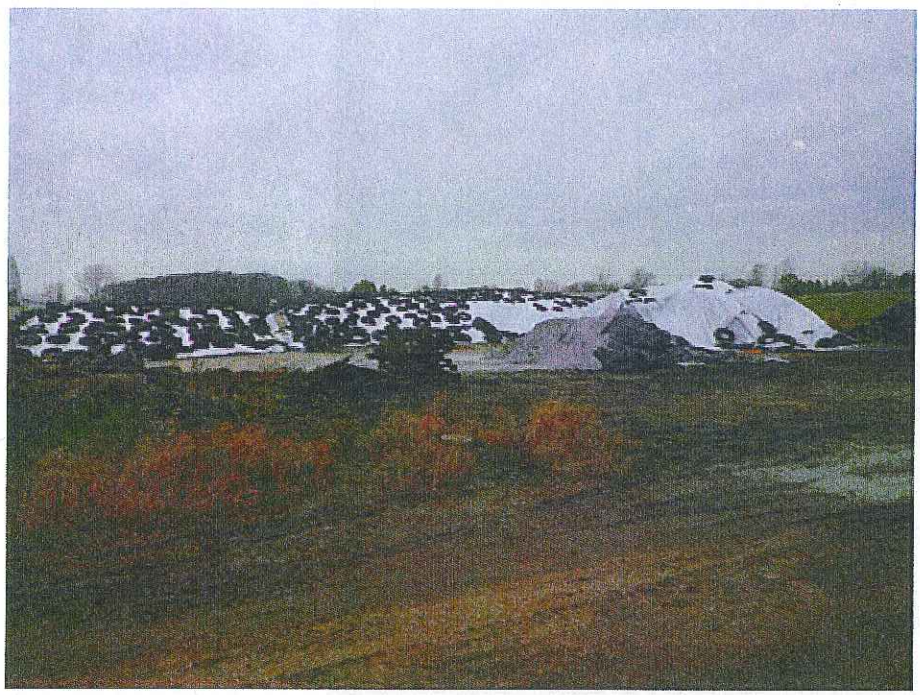


Photo IMGP 1047: Bags of silage on the southeast side of the production area
Location: Southeast side of the production area
Facing: Southeast
Date/Time: 10/25/2012

Photo IMGP 1048: Access road on the east side of the production area
Location: East side of the production area
Facing: South
Date/Time: 10/25/2012

Photo IMGP 1049: East side of the silage production area
Location: South side of the silage bunker
Facing: North
Date/Time: 10/25/2012

Photo IMGP 1050: Northeast corner of the earthen storage structure
Location: Northeast corner of earthen silage bunker
Facing: Southwest
Date/time: 10/25/2012

Photo IMGP 1051: Sand settling basin flows into earthen storage structure
Location: East of the heifer barn and earthen storage structure
Facing: Northwest
Date/Time: 10/25/2012

Photo IMGP 1052: Weir between the sand settling and the earthen storage structure
Location: East of the heifer barn and earthen storage structure
Facing: Northwest
Date/Time: 10/25/2012

Photo IMGP 1053: Earthen storage structure with woody growth around the earthen storage structure
Location: East side of earthen storage structure
Facing: West
Date/Time: 10/25/2012

Photo IMGP 1054: Close-up of the west side of heifer concrete feedlot
Location: West side of the concrete feed area for the heifers
Facing: West
Date/Time: 10/25/2012

Photo IMGP 1055: Heifer lot and concrete storage structure flowing into the earthen storage structure
Location: West side of the concrete feed area of the heifers
Facing: Northwest
Date/Time: 10/25/2012

Photo IMGP 1056: Concrete settling basin
Location: Northwest corner of the heifer barn and concrete settling basin
Facing: Southwest
Date/Time: 10/25/2012

Photo IMGP 1057: Used bedding and manure between the heifer barn and freestall barn
Location: Between the heifer barn and freestall barn
Facing: Southwest
Date/Time: 10/25/2012

Photo IMGP 1058: Process wastewater runoff from the stored used bedding and manure
Location: Between the freestall barn and heifer barn northeast of the dry heifer barn
Facing: Southwest
Date/Time: 10/25/2012

Photo IMGP 1059: Used bedding and manure stored north of concrete settling basin
Location: Concrete access road between concrete settling basin and freestall barn
Facing: East
Date/Time: 10/25/2012

Photo IMGP 1060: All process wastewater between heifer barn and freestall barn runs off to the southwest through dry heifer feedlot
Location: North of dry heifer feedlot
Facing: NA
Date/Time: 10/25/2012

Photo IMGP 1061: Manure leaking out of the concrete settling basin, which flows through the dry heifer feedlot
Location: North of concrete settling basin
Facing: NA
Date/Time: 10/25/2012

Photo IMGP 1062: Dry Heifer Feedlot
Location: Northeast corner of dry heifer feedlot
Facing: Southwest
Date/Time: 10/25/2012

Photo IMGP 1063: Dry heifer feedlot
Location: Northeast corner
Facing: Southwest
Date/Time: 10/25/2012

Photo IMGP 1064: Dry heifer Feedlot runoff flows into the channel that flows through the pasture
Location: North side of dry heifer feedlot
Facing: South
Date/Time: 10/25/2012

Photo IMGP 1065: Dry heifer feedlot with runoff pathway through the feedlot into the channel
Location: Northwest side of heifer feedlot
Facing: Southwest
Date/Time: 10/25/2012

Photo IMGP 1066: Runoff pathway through dry heifer feedlot to the channel
Location: South side of the heifer feedlot
Facing: North
Date/Time: 10/25/2012

Photo IMGP 1067: Runoff pathway in the dry heifer feedlot
Location: Southwest corner of the dry heifer feedlot
Facing: southeast
Date/Time: 10/25/2012

Photo IMGP 1068: Channel through pasture
Location: In pasture south corner of dry heifer barn
Facing: West
Date/Time: 10/25/2012

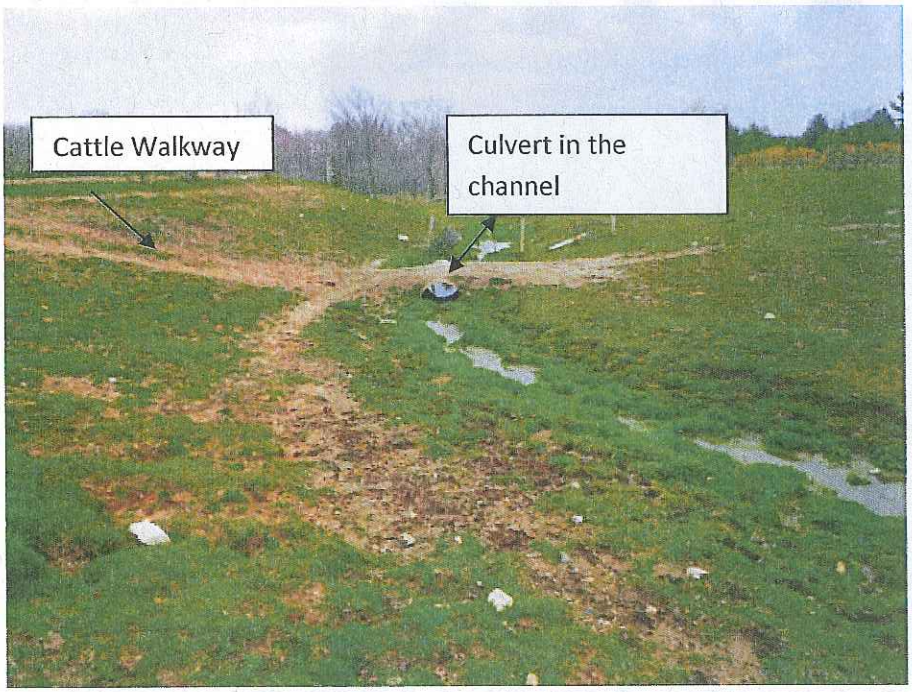


Photo IMGP 1069: Channel and cattle walkway over culvert
Location: Within the pasture south of heifer dry barn
Facing: South
Date/Time: 10/25/2012

Photo IMGP 1070: Culvert that conveys flow under cattle walkway
Location: With cow pasture west of the cattle walkway
Facing: south
Date/Time: 10/25/2012

Photo IMGP 1071: Runoff pathway on the south side of the dry heifer feedlot
Location: South side of dry heifer feedlot
Facing: North
Date/Time: 10/25/2012

Photo IMGP 1072: Photo of dry heifer feedlot process wastewater flows off the feedlot
Location: South of the heifer feedlot
Facing: North
Date/Time: 10/25/2012

Photo IMGP 1073: Channel in pasture
Location: On cattle walkway east of the storm water channel
Facing: Northwest
Date/Time: 10/25/2012

Photo IMGP 1074: Grassed filter strip
Location: In pasture south of cattle walkway and south west of earthen storage structure
Facing: North
Date/Time: 10/25/2012

Photo IMGP 1075: Grassed filter strip
Location: East of the grassed filter strip
Facing: West
Date/Time: 10/25/2012

Photo IMGP 1076: Facing downstream of the unnamed tributary
Location: South of production area
Facing: West
Date/Time: 10/25/2012

Photo IMGP 1077: Facing upstream of the unnamed tributary
Location: South of production area
Facing: South
Date/Time: 10/25/2012

Photo IMGP 1078: S01- DS Culvert
Location: Downstream of culvert within the channel in pasture
Facing: southwest
Date/Time: 10/25/2012

Photo IMGP 1079: Close-up of S01-DS Culvert
Location: Samples within the channel in the pasture
Facing: NA
Date/Time: 10/25/2012

Photo IMGP 1080: Channel from the grassed filter strip into the unnamed tributary
Location: South of production area
Facing: NA
Date/Time: 10/25/2012

Photo IMGP 1081: Culvert within unnamed tributary
Location: Unnamed tributary south of production area
Facing: South
Date/Time: 10/25/2012

Photo IMGP 1082: Channel to the unnamed tributary from the grassed filter strip
Location: South of the production area
Facing: NA
Date/Time: 10/25/2012

Photo IMGP 1083: S02 Confluence – Sample taken within grass filter strip before it discharges into unnamed tributary
Location: South of production area
Facing: NA
Date/Time: 10/25/2012

Photo IMGP 1084: Close-up of SO2- Confluence
Location: Confluence of grassed filter strip and unnamed tributary
Facing: NA
Date/Time: 10/25/2012

Photo IMGP 1085: Grassed filter strip and Keith Brunner
Location: South of production area
Facing: North
Date/Time: 10/25/2012

Photo IMGP 1086: Facing upstream of the unnamed tributary
Location: At the unnamed tributary south of the production area
Facing: East
Date/Time: 10/25/2012

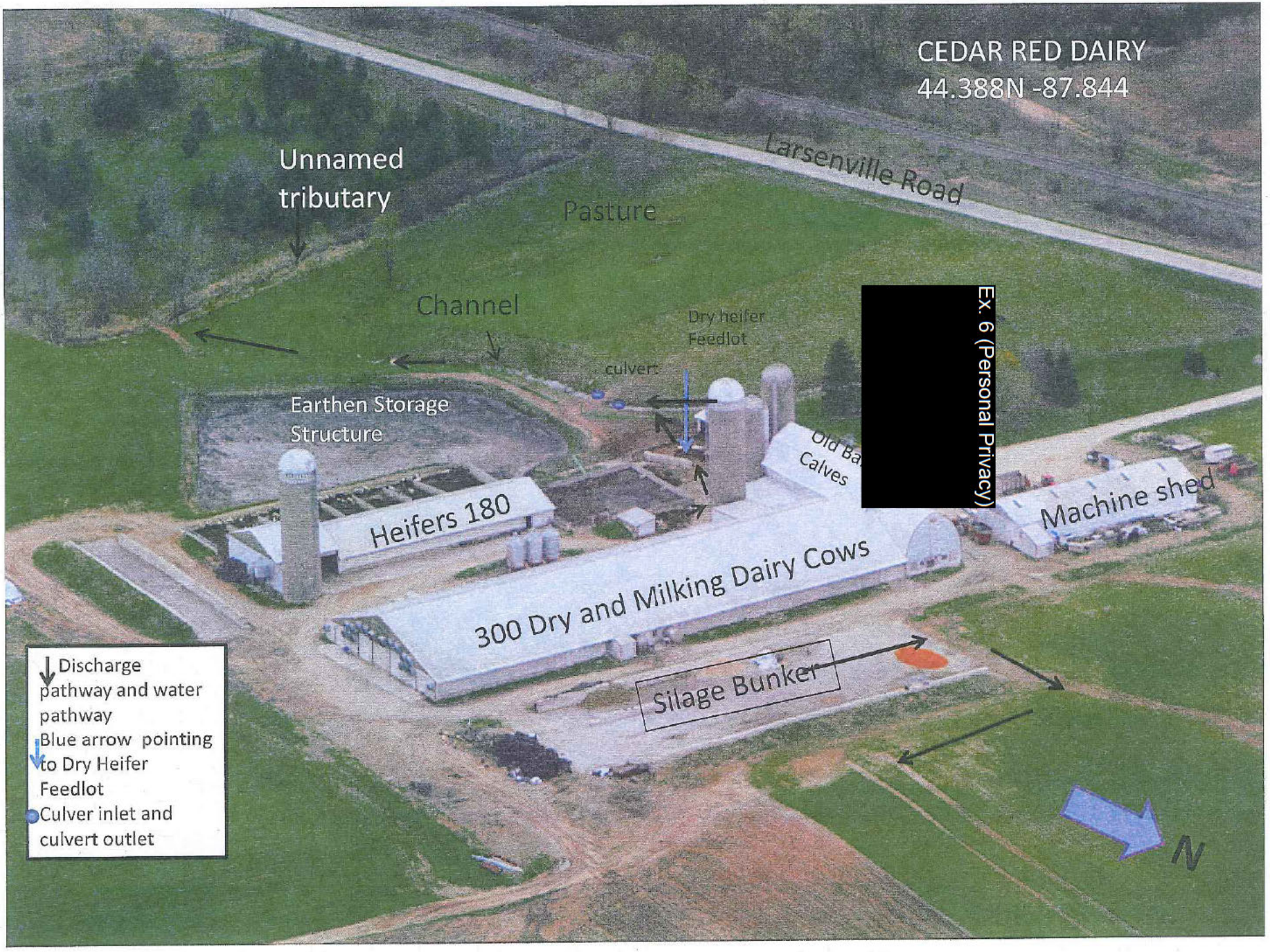
Photo IMGP 1087: Unnamed tributary with flowing water
Location: Unnamed tributary south of the production area
Facing: NA
Date/Time: 10/25/2012

Photo IMGP 1088: Water within the unnamed tributary south of the production area
Location: South of the production area
Facing: NA
Date/Time: 10/25/2012

Photo IMGP 1089: Facing upstream of the unnamed tributary south of the production area
Location: South of production area at unnamed tributary
Facing: west
Date/Time: 10/25/2012

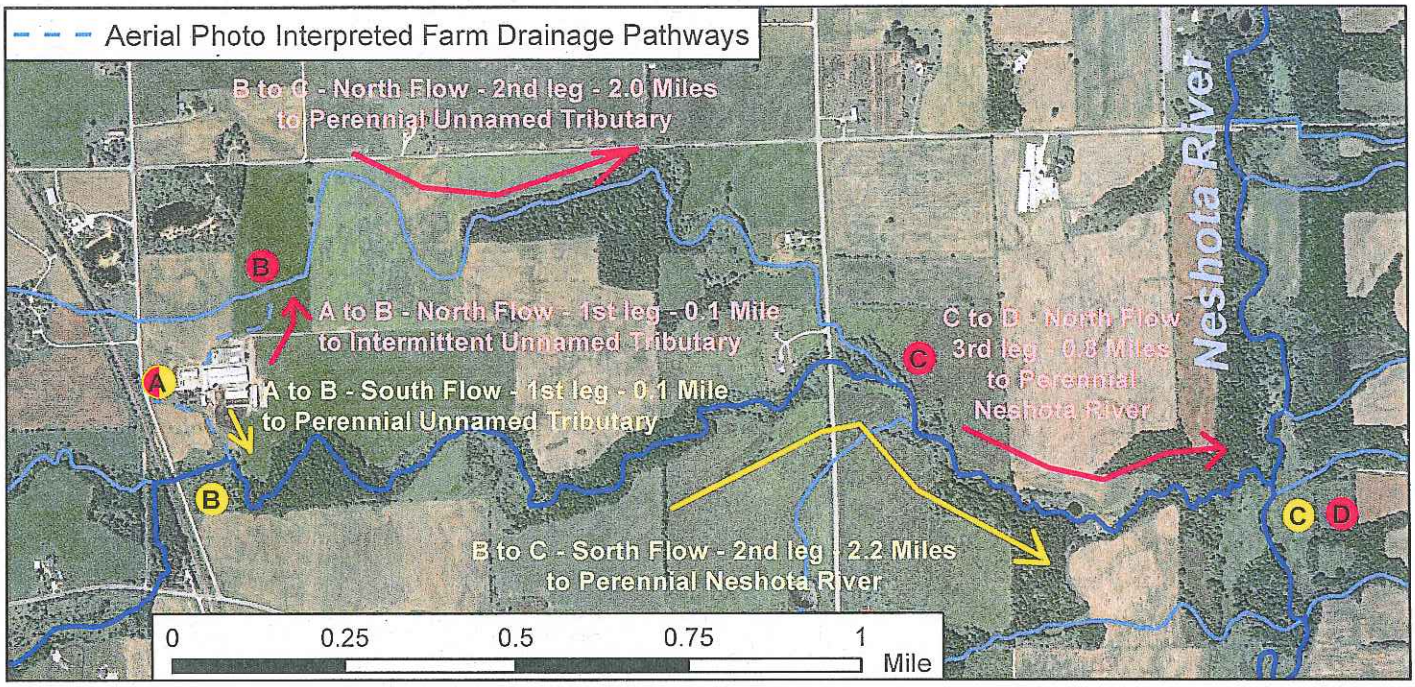
ATTACHMENT B

CEDAR RED DAIRY
MAPS

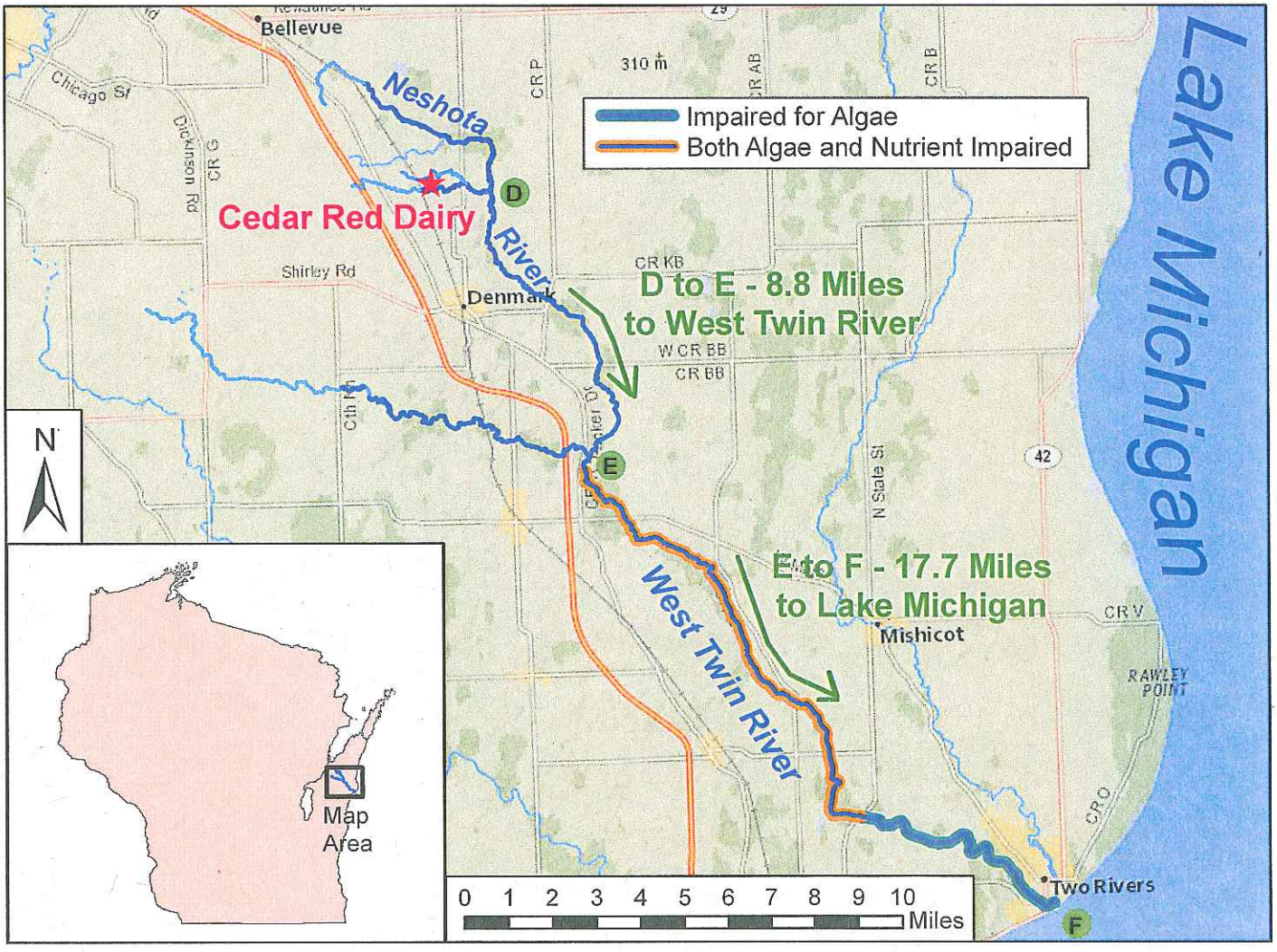

CEDAR RED DAIRY
44.388N -87.844
Unnamed tributary
Pasture
Larsenville Road
Channel
Dry heifer Feedlot
culvert
Earthen Storage Structure
Ex. 6 (Personal Privacy)
Old Ba
Calves
Heifers 180
Machine shed
300 Dry and Milking Dairy Cows
Silage Bunker
Discharge pathway and water pathway
Blue arrow pointing to Dry Heifer Feedlot
Culver inlet and culvert outlet
N

Cedar Red Dairy
Brown County, Wisconsin

USGS Stream Type
- Perennial
- Intermittent



C and D on the map above are the same location where the tributary meets the Neshota River as D on the map below.



ATTACHMENT C

CEDAR RED DAIRY
SAMPLE ANALYSES

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 01CB2013 CEDAR RED FARM
Pace Project No.: 4069577

Sample: S01 DS CULVERT **Lab ID: 4069577001** Collected: 10/25/12 15:05 Received: 10/25/12 15:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9222D MICRO Fecal Coli by MF	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**41000**	CFU/100 mL	1000	1000	1000	10/25/12 17:45	10/25/12 17:45		

Sample: S02 CONFLUENCE **Lab ID: 4069577002** Collected: 10/25/12 15:10 Received: 10/25/12 15:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9222D MICRO Fecal Coli by MF	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**900**	CFU/100 mL	90.0	90.0	90	10/25/12 17:45	10/25/12 17:45		

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 01CB2013 CEDAR RED FARM
Pace Project No.: 4069577

QC Batch: MBIO/2595
QC Batch Method: SM 9222D
Analysis Method: SM 9222D
Analysis Description: 9222D MICRO Fecal Coliform by MF
Associated Lab Samples: 4069577001, 4069577002

METHOD BLANK: 703548
Matrix: Water
Associated Lab Samples: 4069577001, 4069577002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1	1.0	10/25/12 17:45	

SAMPLE DUPLICATE: 703549

Parameter	Units	4069576001 Result	Dup Result	RPD	Max RPD	Qualifiers
Fecal Coliforms	CFU/100 mL	180000	<90100			

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 01CB2013 CEDAR RED FARM
Pace Project No.: 4069577

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4069577001	S01 DS CULVERT	SM 9222D	DEY	1	PASI-G
4069577002	S02 CONFLUENCE	SM 9222D	DEY	1	PASI-G

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 01CB2013 CEDAR RED FARM
Pace Project No.: 4069577

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4069577001	S01 DS CULVERT	Water	10/25/12 15:05	10/25/12 15:55
4069577002	S02 CONFLUENCE	Water	10/25/12 15:10	10/25/12 15:55

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 01CB2013 CEDAR RED FARM
Pace Project No.: 4069577

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 01, 2012

Kimberly O'neil
SAIC
McLean/Enterprise Center
8301 Greensboro Drive
Mc Lean, VA 22102

RE: Project: 01CB2013 CEDAR RED FARM
Pace Project No.: 4069577

Dear Kimberly O'neil:
Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com
Project Manager

Enclosures

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CHICAGO REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2280 Testing

Date: 12/21/2012

Subject: Review of Region 5 Data for Cedar Red Farm

From: Colin Breslin, Chemist
Region 5 Chicago Regional Laboratory CB

To: Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-0375 for any comments or questions.

Attached are Results for: Cedar Red Farm

_____ / /

Data Management Coordinator and Date Received

Date Transmitted: ____/____/_____

Analyses included in this report:

Solids, TDS Solids, TSS

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Dec-21-12 10:26

ANALYSIS CASE NARRATIVE

Analyst Phone Number: (312) 886 - 2912

General Information

Four water samples were analyzed for total dissolved solids (TDS) on October 29, 2012. All holding times were met.

Note: All supporting data are archived with Work Order 1210025.

Sample Analysis and Results

The samples for TDS were prepared and analyzed according to CRL SOP AIG017 Revision No: 4.6 (SM 2540 C).

Quality Control

All quality control (QC) audits were within CRL limits.

General Information

Four water samples were analyzed for total suspended solids (TSS) on October 29, 2012. All holding times were met.

Note: All supporting data are archived with Work Order 1210025.

Sample Analysis and Results

The samples for TSS were prepared and analyzed according to CRL SOP AIG018 Revision No: 3.6 (SM 2540 D).

Quality Control

All quality control (QC) audits were within CRL limits.

CB 12/21/12
Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Dec-21-12 10:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01	1210026-01	Water	Oct-25-12 15:05	Oct-26-12 10:30
S02	1210026-02	Water	Oct-25-12 15:10	Oct-26-12 10:30
S03	1210026-03	Water	Oct-25-12 15:10	Oct-26-12 10:30
S04	1210026-04	Water	Oct-25-12 15:55	Oct-26-12 10:30

CB 12/21/12
Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Cedar Red Farm Project Number: 01CB2013 Project Manager: Cheryl Burdett	Reported: Dec-21-12 10:26

Dissolved Solids, SM 2540C (modified)
US EPA Region 5 Chicago Regional Laboratory

S01 (1210026-01) Water Sampled: Oct-25-12 15:05 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	592			20	mg/L	1	B210039	Oct-29-12	Oct-29-12

S02 (1210026-02) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	520			20	mg/L	1	B210039	Oct-29-12	Oct-29-12

S03 (1210026-03) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	530			20	mg/L	1	B210039	Oct-29-12	Oct-29-12

S04 (1210026-04) Water Sampled: Oct-25-12 15:55 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	U			20	mg/L	1	B210039	Oct-29-12	Oct-29-12

CB 12/21/12
Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Dec-21-12 10:26

Total Suspended Solids, SM 2540 D (modified)
US EPA Region 5 Chicago Regional Laboratory

S01 (1210026-01) Water Sampled: Oct-25-12 15:05 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	80			5	mg/L	1	B210038	Oct-29-12	Oct-29-12

S02 (1210026-02) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	14			5	mg/L	1	B210038	Oct-29-12	Oct-29-12

S03 (1210026-03) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	9			5	mg/L	1	B210038	Oct-29-12	Oct-29-12

S04 (1210026-04) Water Sampled: Oct-25-12 15:55 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	U			5	mg/L	1	B210038	Oct-29-12	Oct-29-12

CB 12/21/12
Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU ACCREDITED ISO/IEC 17025 Certificate #12280 Testing

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Dec-21-12 10:26

Notes and Definitions

U	Not Detected
NR	Not Reported

CB 12/21/12
Colin Breslin, Chemist

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.10.2003
	Solids, TDS	(Water)	Special Units: (mg/L)
	Solids, TSS	(Water)	Special Units: (mg/L)

CB 12/21/12

Sample, Log and Extraction Comments

1210026-01
Solids, TDS

pH = 8
pH = 8

Solids, TSS

pH = 8
pH = 8

1210026-02
Solids, TDS

pH = 8
pH = 8

Solids, TSS

pH = 8
pH = 8

1210026-03
Solids, TDS

pH = 8
pH = 8

Solids, TSS

pH = 8
pH = 8

1210026-04
Solids, TDS

pH = 5
pH = 5

Solids, TSS

pH = 5
pH = 5

CB 12/21/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CHICAGO REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

LABORATORY ACCREDITATION BUREAU ACCREDITED ISO/IEC 17025 Certificate #L2393 Testing

Date: 11/29/2012

Subject: Review of Region 5 Data for Cedar Red Farm

From: Anna Aleszczyk, Chemist AA
Region 5 Chicago Regional Laboratory

To: Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-0375 for any comments or questions.

Attached are Results for: Cedar Red Farm

_____ / / _____

Data Management Coordinator and Date Received

Date Transmitted: ____/____/_____

Analyses included in this report:

Ammonia N DA, Distilled	TKN DA	Total Phosphorus DA

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Nov-29-12 14:13

ANALYSIS CASE NARRATIVE – Distilled Ammonia Nitrogen in Water

Work order #: 1210026
Phone #: (312) 353-9467

General Information
Four water samples were prepared and analyzed for Ammonia Nitrogen on November 15, 2012. All holding times were met.

Sample Analysis and Results
The samples were prepared and analyzed for Ammonia Nitrogen in water using CRL SOP AIG029A, Revision # 1.4 (Reference Method, EPA 350.1). The samples were stored in the refrigerator at all times, except when in use.

Quality Control
All quality control audits were within CRL limits.

ANALYSIS CASE NARRATIVE –Total Phosphorus in Water

Work order #: 1210026
Phone #: (312) 353-9467

General Information
Four water samples were prepared and analyzed for Total Phosphorus on November 16, 2012 and November 19, 2012, respectively. All holding times were met.

NOTE: All supporting data are archived with work order number 1210025.

Sample Analysis and Results
The samples were prepared and analyzed for Total Phosphorus in water using CRL SOP AIG034A, Revision # 3.6 (Reference Method, EPA 365.4). Samples were stored in the refrigerator at all times except when in use.

Quality Control
All quality control audits were within CRL limits.

AA 11-29-12
Anna Aleszczyk, Chemist

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LABORATORY ACCREDITATION BUREAU

Water Division, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Cedar Red Farm Project Number: 01CB2013 Project Manager: Cheryl Burdett	Reported: Nov-29-12 14:13

ANALYSIS CASE NARRATIVE –Total Kjeldahl Nitrogen in Water

Work order #: 1210026
Phone #: (312) 353-9467

General Information
Four water samples were prepared and analyzed for Total Kjeldahl Nitrogen on November 16, 2012 and November 19, 2012, respectively. All holding times were met.

NOTE: All supporting data are archived with work order number 1210025.

Sample Analysis and Results
The samples were prepared and analyzed for Total Kjeldahl Nitrogen in water using CRL SOP AIG035A Revision #2.6 (Reference Method, EPA 351.2). Samples were stored in the refrigerator at all times except when in use.

Quality Control
All quality control audits were within CRL limits.

AA 11-29-12
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LABORATORY ACCREDITATION BUREAU
ACCREDITED TO ISO/IEC 17025
Certificate #L2291 Testing

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Nov-29-12 14:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01	1210026-01	Water	Oct-25-12 15:05	Oct-26-12 10:30
S02	1210026-02	Water	Oct-25-12 15:10	Oct-26-12 10:30
S03	1210026-03	Water	Oct-25-12 15:10	Oct-26-12 10:30
S04	1210026-04	Water	Oct-25-12 15:55	Oct-26-12 10:30

AA 11-29-12

Anna Aleszczyk, Chemist

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Chicago Regional Laboratory

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Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Nov-29-12 14:13

Ammonia Nitrogen, Colorimetric, EPA 350.1 (modified)
US EPA Region 5 Chicago Regional Laboratory

S01 (1210026-01) Water Sampled: Oct-25-12 15:05 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	2.40		0.11	0.50	mg/L	1	B211041	Nov-15-12	Nov-15-12

S02 (1210026-02) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	0.34	J	0.11	0.50	mg/L	1	B211041	Nov-15-12	Nov-15-12

S03 (1210026-03) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	0.36	J	0.11	0.50	mg/L	1	B211041	Nov-15-12	Nov-15-12

S04 (1210026-04) Water Sampled: Oct-25-12 15:55 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	U		0.11	0.50	mg/L	1	B211041	Nov-15-12	Nov-15-12

AA 11-29-12

Anna Aleszczyk, Chemist

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Chicago Regional Laboratory
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LABORATORY ACCREDITATION BUREAU

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Nov-29-12 14:13

Phosphorus, Colorimetric, EPA 365.4 (modified)
US EPA Region 5 Chicago Regional Laboratory

S01 (1210026-01) Water Sampled: Oct-25-12 15:05 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	0.63		0.03	0.15	mg/L	1	B211043	Nov-16-12	Nov-19-12

S02 (1210026-02) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	0.30		0.03	0.15	mg/L	1	B211043	Nov-16-12	Nov-19-12

S03 (1210026-03) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	0.29		0.03	0.15	mg/L	1	B211043	Nov-16-12	Nov-19-12

S04 (1210026-04) Water Sampled: Oct-25-12 15:55 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	U		0.03	0.15	mg/L	1	B211043	Nov-16-12	Nov-19-12

AA 11-29-12

Anna Aleszczyk, Chemist

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Phone:(312)353-8370 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2301 Testing

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Nov-29-12 14:13

Total Kjeldahl Nitrogen, EPA 351.2 (modified)
US EPA Region 5 Chicago Regional Laboratory

S01 (1210026-01) Water Sampled: Oct-25-12 15:05 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	5.46		0.30	0.50	mg/L	1	B211043	Nov-16-12	Nov-19-12

S02 (1210026-02) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	2.15		0.30	0.50	mg/L	1	B211043	Nov-16-12	Nov-19-12

S03 (1210026-03) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	1.82		0.30	0.50	mg/L	1	B211043	Nov-16-12	Nov-19-12

S04 (1210026-04) Water Sampled: Oct-25-12 15:55 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	U		0.30	0.50	mg/L	1	B211043	Nov-16-12	Nov-19-12

AA 11-29-12

Anna Aleszczyk, Chemist

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Phone:(312)353-8370 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU
ACCREDITED TO ISO/IEC 17025
Certificate #L2231 Testing

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Nov-29-12 14:13

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
*	This Quality Control measure meets the requirements of the CRL SOP for this analyte.
U	Not Detected
NR	Not Reported

AA 11-29-12

Anna Aleszczyk, Chemist

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.10:2003
	Ammonia N DA, Distilled	(Water)	J-Flags used
	Ammonia N DA, Distilled	(Water)	Result calculations based on MDL
	Ammonia N DA, Distilled	(Water)	Special Units: (mg/L)
	TKN DA	(Water)	J-Flags used
	TKN DA	(Water)	Result calculations based on MDL
	TKN DA	(Water)	RPD calculations based on %Recovery
	TKN DA	(Water)	Special Units: (mg/L)
	Total Phosphorus DA	(Water)	J-Flags used
	Total Phosphorus DA	(Water)	Result calculations based on MDL
	Total Phosphorus DA	(Water)	RPD calculations based on %Recovery
	Total Phosphorus DA	(Water)	Special Units: (mg/L)
B211043-MS1	Total Phosphorus DA	Total Phosphorus	*: This Quality Control measure meets the requirements of the CRL SOP for this analyte.
B211043-MS1	Total Phosphorus DA	Total Phosphorus	Exceeds lower control limit
B211043-MS5	Total Phosphorus DA	Total Phosphorus	Exceeds upper control limit

Sample, Log and Extraction Comments

1210026-01

Ammonia N DA, Distilled

pH=2
pH=2

TKN DA

pH=2
pH=2

Total Phosphorus DA

pH=2
pH=2

1210026-02

Ammonia N DA, Distilled

pH=2
pH=2

TKN DA

pH=2
pH=2

Total Phosphorus DA

pH=2
pH=2

1210026-03

Ammonia N DA, Distilled

pH=2
pH=2

TKN DA

pH=2
pH=2

Total Phosphorus DA

pH=2
pH=2

1210026-04

Ammonia N DA, Distilled

pH=2
pH=2

TKN DA

pH=2
pH=2

Total Phosphorus DA

pH=2
pH=2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CHICAGO REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC17025
Certificate # L2280 Testing

Date: 12/12/2012

Subject: Review of Region 5 Data for Cedar Red Farm

From: Colin Breslin, Chemist
Region 5 Chicago Regional Laboratory CB

To: Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-0375 for any comments or questions.

Attached are Results for: Cedar Red Farm

_____ / /

Data Management Coordinator and Date Received

Date Transmitted: ____/____/_____

Analyses included in this report:

BOD

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Dec-12-12 15:25

ANALYSIS CASE NARRATIVE

Analyst Phone Number: (312) 886 - 2912

General Information

Four water samples were analyzed for biochemical oxygen demand, 5 day (BOD5) on October 26, 2012. All holding times were met.

A Chicago Regional Laboratory (CRL) Pen & Ink Change was approved on 7/2/2012, which updated the limit for Duplicate Relative Percent Deviation (RPD) for CRL SOP AIG006, Revision No: 3.3 (SM 5210B) based on historical data collected at CRL.

Note: All supporting data are archived with work order 1210025

Sample Analysis and Results

The four samples were prepared and analyzed according to CRL SOP AIG006, Revision No: 3.3 (SM 5210B). Final dissolved oxygen (DO) readings for all of the samples were less than the required depletion of at least 2 mg/L DO for all dilution levels that were analyzed. Samples 1210026-01 (S01), 1210026-02 (S02), and 1210026-03 (S03) were reported as "J - The identification of the analyte is acceptable; the reported value is an estimate". Sample 1210026-04 (S04) was reported as "U – not detected" at the reporting limit of 2 mg/L BOD5.

Quality Control

All quality control (QC) audits were within CRL limits, except as follows:

QC Batch Duplicate:
Sample 1210026-01 (S01) and its duplicate had a relative percent difference (RPD) of 38.6%, which exceeded the CRL QC limit of 36%. No significant impacts are expected for the overall dataset since the sample and duplicate RPD were calculated from estimated values, the absolute difference between the results is small, and the results are near the reporting limit of 2 mg/L BOD5.

CB 12/12/12
Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Dec-12-12 15:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01	1210026-01	Water	Oct-25-12 15:05	Oct-26-12 10:30
S02	1210026-02	Water	Oct-25-12 15:10	Oct-26-12 10:30
S03	1210026-03	Water	Oct-25-12 15:10	Oct-26-12 10:30
S04	1210026-04	Water	Oct-25-12 15:55	Oct-26-12 10:30

BOD, 5 day, SM 5210 B (modified)
US EPA Region 5 Chicago Regional Laboratory

S01 (1210026-01) Water Sampled: Oct-25-12 15:05 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	7	J	2	2	mg/L	1	B210037	Oct-26-12	Oct-26-12

S02 (1210026-02) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	8	J	2	2	mg/L	1	B210037	Oct-26-12	Oct-26-12

S03 (1210026-03) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	3	J	2	2	mg/L	1	B210037	Oct-26-12	Oct-26-12

S04 (1210026-04) Water Sampled: Oct-25-12 15:55 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	U		2	2	mg/L	1	B210037	Oct-26-12	Oct-26-12

CB 12/12/12
Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Dec-12-12 15:25

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

CB 12/12/12
Colin Breslin, Chemist

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.10:2003
	BOD	(Water)	Result calculations based on MDL
	BOD	(Water)	Special Units: (mg/L)
B210037-DUP2	BOD	Biochemical Oxygen Demand	Exceeds RPD control limit

CB 12/12/12

Sample, Log and Extraction Comments

1210026-01
BOD

pH = 8
pH = 8

1210026-02
BOD

pH = 8
pH = 8

1210026-03
BOD

pH = 8
pH = 8

1210026-04
BOD

pH = 5
pH = 5

CB 12/12/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CHICAGO REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2280 Testing

Date: 12/10/2012

Subject: Review of Region 5 Data for Cedar Red Farm

From: Nidia Fuentes, Analyst
Region 5 Chicago Regional Laboratory

To: Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-0375 for any comments or questions.

Attached are Results for: Cedar Red Farm

_____ / /

Data Management Coordinator and Date Received

Date Transmitted: ____/____/_____

Analyses included in this report:

Nitrate-Nitrite N DA

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2235 Testing

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Dec-10-12 13:52

ANALYSIS CASE NARRATIVE

312-353-9079

General Information

A total of four water samples to be analyzed for nitrate-nitrite nitrogen were received at Chicago Regional Laboratory on October 26, 2012. Holding times were met.

Sample Analysis and Results

Samples for nitrate/nitrite nitrogen were analyzed on November 08, 2012 using CRL SOP #AIG031A revision 0.5 (Standard method 4500 $-NO_3^-$ E).

Quality Control

All quality control audits were within the CRL's limits.

Nidia Fuentes, Analyst

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536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU
ACCREDITED TO ISO/IEC 17025
Certificate # L2280 Testing

Water Division, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Cedar Red Farm Project Number: 01CB2013 Project Manager: Cheryl Burdett	Reported: Dec-10-12 13:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01	1210026-01	Water	Oct-25-12 15:05	Oct-26-12 10:30
S02	1210026-02	Water	Oct-25-12 15:10	Oct-26-12 10:30
S03	1210026-03	Water	Oct-25-12 15:10	Oct-26-12 10:30
S04	1210026-04	Water	Oct-25-12 15:55	Oct-26-12 10:30

Nitrate - Nitrite Nitrogen, SM 4500E (modified)
US EPA Region 5 Chicago Regional Laboratory

S01 (1210026-01) Water Sampled: Oct-25-12 15:05 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	7.00		0.04	0.25	mg/L	1	B211023	Nov-08-12	Nov-08-12

S02 (1210026-02) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	6.16		0.04	0.25	mg/L	1	B211023	Nov-08-12	Nov-08-12

S03 (1210026-03) Water Sampled: Oct-25-12 15:10 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	6.06		0.04	0.25	mg/L	1	B211023	Nov-08-12	Nov-08-12

S04 (1210026-04) Water Sampled: Oct-25-12 15:55 Received: Oct-26-12 10:30

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	U	U	0.04	0.25	mg/L	1	B211023	Nov-08-12	Nov-08-12

Nidia Fuentes, Analyst

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Chicago Regional Laboratory
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LABORATORY ACCREDITATION BUREAU
ACCREDITED TO ISO/IEC 17025
Certificate # L2280 Testing

Water Division, US EPA Region 5	Project: Cedar Red Farm	
77 West Jackson Boulevard	Project Number: 01CB2013	Reported:
Chicago IL, 60604	Project Manager: Cheryl Burdett	Dec-10-12 13:52

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
*	This Quality Control measure meets the requirements of the CRL SOP for this analyte.
U	Not Detected
NR	Not Reported

Nidia Fuentes, Analyst

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.10:2003
	Nitrate-Nitrite N DA	(Water)	J-Flags used
	Nitrate-Nitrite N DA	(Water)	Result calculations based on MDL
	Nitrate-Nitrite N DA	(Water)	Special Units: (mg/L)
	Nitrate-Nitrite N DA	(Water)	U-Flags used
B211023-BLK1	Nitrate-Nitrite N DA	Nitrate-Nitrite N	*: This Quality Control measure meets the requirements of the CRL SOP for this analyte.
B211023-BLK1	Nitrate-Nitrite N DA	Nitrate-Nitrite N	Blank >1 x MDL

Sample, Log and Extraction Comments

1210026-01
Nitrate-Nitrite N DA

pH = 2
pH = 2

1210026-02
Nitrate-Nitrite N DA

pH = 2
pH = 2

1210026-03
Nitrate-Nitrite N DA

pH = 2
pH = 2

1210026-04
Nitrate-Nitrite N DA

pH = 2
pH = 2

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	Analyte:							Activity Code:
1[illegible]3	Cedar Rapids Ferrous									
SAMPLERS: *(Print Name and Sign)* Daniel Pawlett Jr. Daniel Pawlett										

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS								TAG NUMBERS
SW1	10/25	1405		X	DS Culvert	1	X							
SW2	10/25	1410		X	Confluence	1	X							

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[signature]	10/25 1555	[signature] 10/25/12 1555
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* / Date / Time

Ship To:

ATTN:

Airbill Number

Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

5-23823

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
0LE3013	Cedar Red Farm

SAMPLERS: *(Print Name and Sign)*
Cheryl Bardot

Activity Code:

100738 CB 10/25/12
100731 100732
100708 100733
TAG NUMBERS

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: Arsenic (Total)	Ammonia (Total)	Nitrate-Nitrite (as N)	Total Phosphorus			
1	10/25	8:05		X	DS Culvert	1	X	X	X	X			
1-01	10/25	7:20		X	DS Culvert	1					X		
1-2	10/25	3:15		X	DS Culvert	1	X	X	X	X			
2-02	10/25	9:10		X	US Manure	1					X		
2-02	10/25	9:10		X	US Manure	1	X	X	X	X			
2-2	10/25	9:10		X	US Manure (2)	1					X		
2-3	10/25	9:10		X	US Manure (2)	1	X	X	X	X			
3-4	10/25	9:55		X	Cedar Red Farm	1					X		
4-4	10/25	10:30		X	Cedar Red Farm	1							

Relinquished by: *(Signature)* Cheryl Bardot	Date / Time 10/25 9:43 AM	Received by: *(Signature)*	Ship To:
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	ATTN:
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time
			Airbill Number
			Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

5-23829